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m. 22790

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Reference No.
ENG 6-697

Director of Logistics

Director of Communications

Contract Negotiations with [redacted]

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1. The Office of Communications has an operational requirement for the development and fabrication of a very low frequency ferrite antenna of a specialized design. In consideration of this requirement, a telegraph proposal has been received from [redacted] for the development and fabrication of one experimental model very low frequency ferrite antenna matrix and associated transistor circuitry.

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2. Due to the urgency of this requirement, there has not been time for [redacted] to prepare a formal proposal. The attached telegraphed quotation covers work which was discussed in detail at a meeting between personnel of [redacted] and Office of Communications on 21 June 1956. A summary of this meeting is attached. A formal proposal outlining the agreements reached at that meeting will be submitted by [redacted] as soon as practicable.

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3. In order to speed the commencement of work, it is requested that Task Order No. 4 be negotiated under Contract RD-107 in accordance with the attached wire and meeting summary, to be supplemented by a formal proposal. Requisition No. MEB 56-431 in the amount of \$21,557.49, indicating the availability of funds under Allotment No. 6-7995-98 is attached. The work to be performed under this task is unclassified, but the association of this Agency is classified SECRET. The project engineer on this work will be [redacted]

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Attachments:

- Telegraphed Proposal dated 22 June 1956
- Summary of Meeting, as above
- Requisition No. MEB 56-431

Classification:

SECRET (TOP)

[redacted]

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SUMMARY OF DISCUSSION BY [] ENGINEER:

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1. The purpose of this meeting was to describe the state of our [] knowledge in the problem area and not for the purpose of making a proposal to do any specific thing, but to indicate the starting point and the limitations which would initially be placed on any immediate effort to come up with a physical usable device. To be more specific, there could be negligible analytic engineering applied to a fast physical device. It would have to be a program of a review of current available literature plus limited knowledge in the working area and then determining the parameter of materials for a physical device to be manufactured and delivered in the order of two or three months' time.

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2. Furthermore, the uncertainties as to noise and sensitivity and bandwidth considerations which might be anticipated from a device of this kind suggest the probability that an accompanying device incorporating tubes and/or transistors might well have to be included for use in conjunction with the physical antenna device.

3. The inherent nature of the materials involved plus a review of some of the current literature and the present state of our knowledge indicates that in order to accomplish a bandwidth in the order to 2 kc, a number of devices in an array, in the order of 20 as a first guess, would be involved.

4. Emphasis on the low frequency phase or quick fix approach would involve de-emphasis of the VHF antenna program which is already in the house for the period of time required by the engineering aspects of making a fast device. De-emphasis of the transistor receiver (solid state) program would be involved for the period of time required by the engineer needed for this (fast device) program.

5. [] reserves the right to make a management decision by this afternoon (21 June 1956) or tomorrow morning as to whether the probability of a successful conclusion to this fast effort is sufficiently high to warrant our undertaking this. (This is not to be a long involved study, but more of a "quick and dirty" type.)

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6. Functional Characteristics: This is to be an antenna device, broad band, 2 kc bandwidth, center frequency approximately 24 kc, desirable that the device be a miniature size, and if the size is too large, larger elements are to be demountable so it will be man-transportable. If power supply is required, it would have to be transportable. The written proposal to be delivered tomorrow morning will not specifically discuss the technical proposal describing the effort to be undertaken. The effort to be undertaken, its orientation and limitations, are as discussed verbally and mutually understood among us. The initial proposal will be supplemented by a detailed proposal at an early time, confirming our understanding of what we propose to do.

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7. We have discussed the limitations and status quo, as well as possibilities, and we don't know how this will wind up. We will try to sum this up in the supplement to the proposal.

8. Temperature range - normal atmospheric temperature range (approximately 20 deg. C.). It is desirable that the center frequency be tunable over approximately plus or minus 1 kc.

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